



FCC Part 15 Antenna Gain Test Report

FCC ID:

AK8YY2985

Type of Equipment:

Radio Equipment

Model No.:

YY2985

Similar Model(s)

N/A

to be covered by this report:

Test Facility:

Sony Corporation

Sony city MinatoMirai

5-1-1, Minatomirai, Nishi-ku, Yokohama, Kanagawa, 220-8750 Japan

Date of Testing:

July 18, 2025

Date of Issue:

July 18, 2025

Reported by:

Yoshihisa Kadosawa (Technical Engineer)

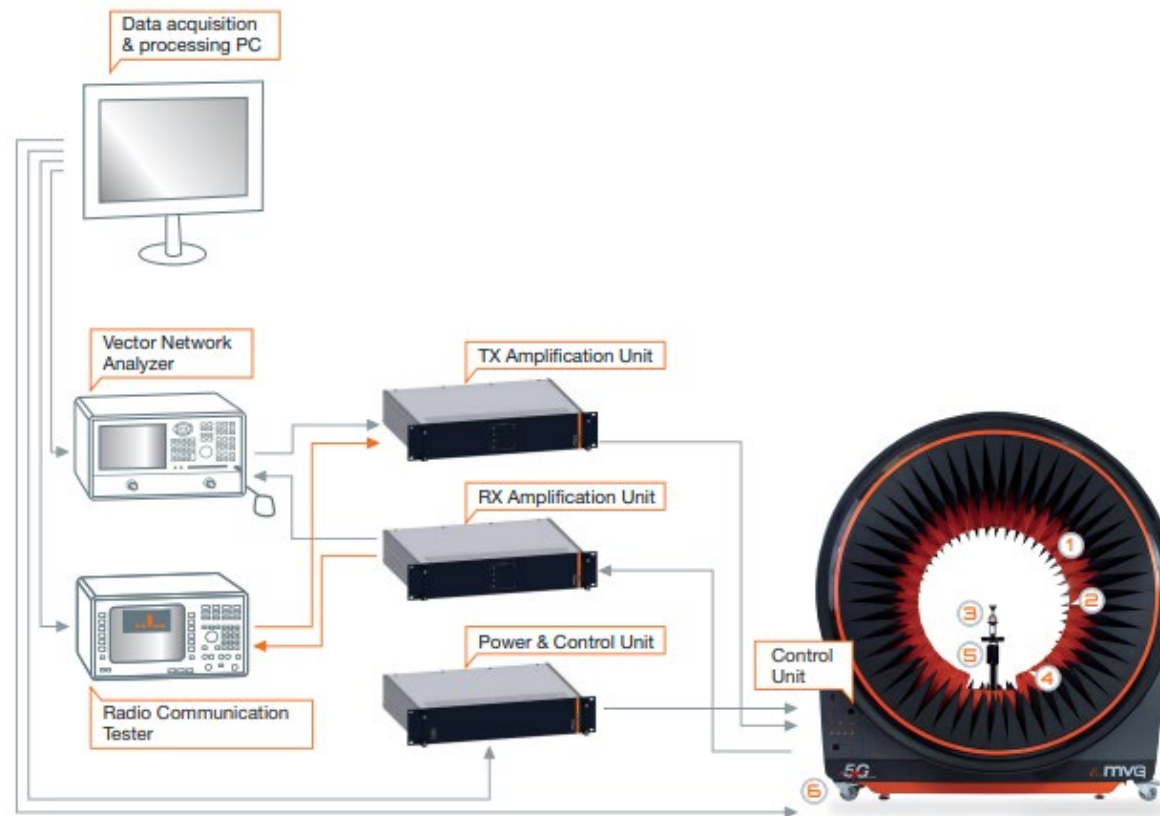
Approved Signatory:

Yuichiro Suzuki (Technical Manager)

1. Measurement Procedure

- The antenna gain is measured with StarLab 50GHz multi-probe measurement system.

System Overview



- 1 Wedge Absorbers
- 2 Cutting-edge Probes
- 3 High Accuracy Reference Antennas
- 4 High Precision Unlimited Sampling
- 5 Sturdy, Transparent Positioner
- 6 Accurate Stabilizers

(References: MVG, StarLab 50GHz multi-probe measurement system datasheet)

2. Test Equipment and Measurement Software

Test Equipment

Used	Control No.	Equipment Description	Model No.	Serial No.	Manufacturer	Cal. Interval	Last Cal.	Remark
Y	-	Multi-Probe Measurement System	StarLab	1103042-0001	MVG	12 months	2024.12.14	
Y	M1062	ENA Network Analyzer	E5071C	MY46629353	Keysight Technologies	12 months	2025.04.08	
• The calibration is valid until the end of the expiration month.								

Measurement Software

Used	Control No.	Software Description	Model No.	Version	Manufacturer	Remark
Y	-	Automated Antenna and OTA Measurement Software Suite	MVG WaveStudio	24.2.9	MVG	
Y	-	Near-Field to Far-Field Transformation Software	MV-Sphere	3.5.7	MVG	

3. Antenna Under Test

Antenna 1

Antenna Model Name: ANTENNA L
Antenna Type: Monopole
Manufacturer: Goertek Inc.
Input Impedance: 50 ohm

Antenna 2

Antenna Model Name: ANTENNA R
Antenna Type: Monopole
Manufacturer: Goertek Inc.
Input Impedance: 50 ohm

4. Antenna Gains

Antenna 1

Date of Testing: July 18, 2025
Tested Personnel: Yoshihisa Kadosawa
Temperature: 25.4 deg.C
Relative Humidity: 44.8 %

Antenna	Frequency (MHz)	Peak Gain (dBi)	Remark
Antenna 1	2400	-3.65	
	2440	-3.18	* 2.4 GHz peak
	2480	-4.21	

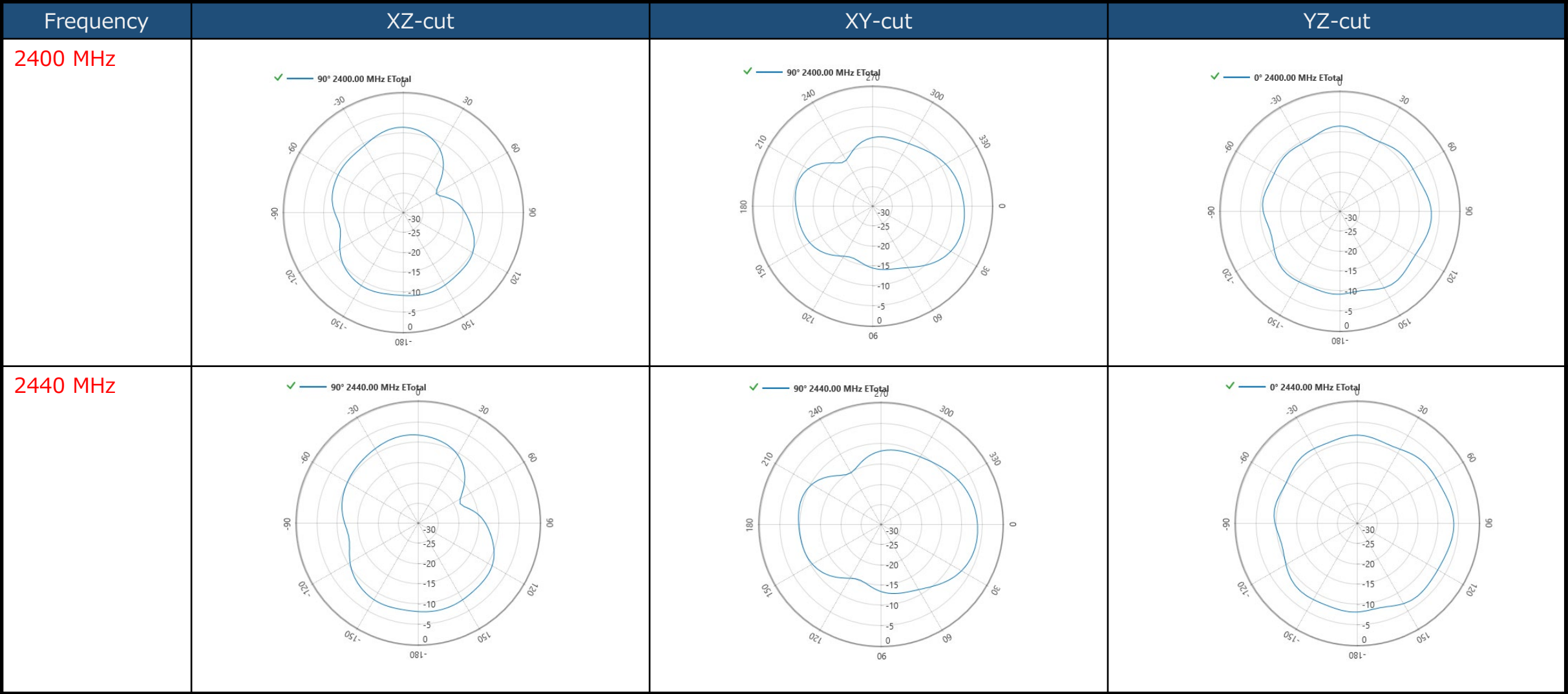
Antenna 2

Date of Testing: July 18, 2025
Tested Personnel: Yoshihisa Kadosawa
Temperature: 25.4 deg.C
Relative Humidity: 44.8 %

Antenna	Frequency (MHz)	Peak Gain (dBi)	Remark
Antenna 2	2400	-3.38	
	2440	-2.54	* 2.4 GHz peak
	2480	-3.21	

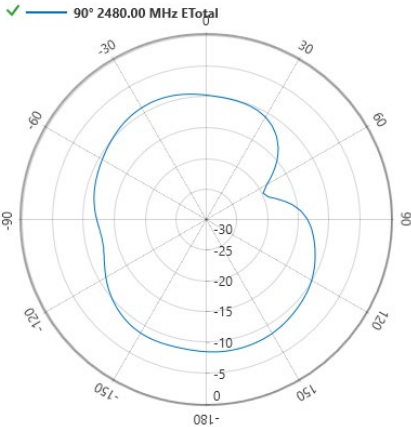
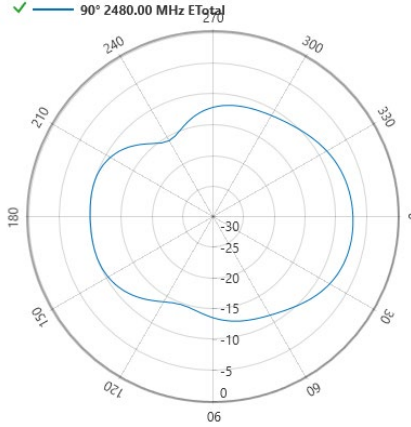
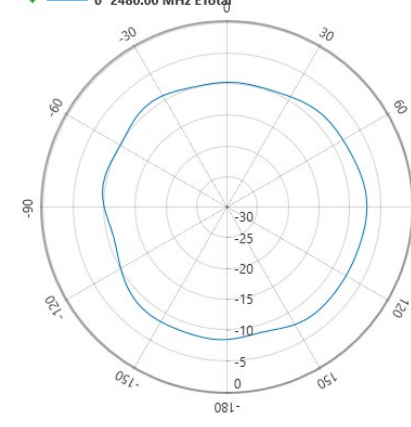
5. Antenna Directivity Plots

Antenna 1 (1/2)



5. Antenna Directivity Plots

Antenna 1 (2/2)

Frequency	XZ-cut	XY-cut	YZ-cut
2480 MHz			

5. Antenna Directivity Plots

Antenna 2 (1/2)

Frequency	XZ-cut	XY-cut	YZ-cut
2400 MHz			
2440 MHz			

5. Antenna Directivity Plots

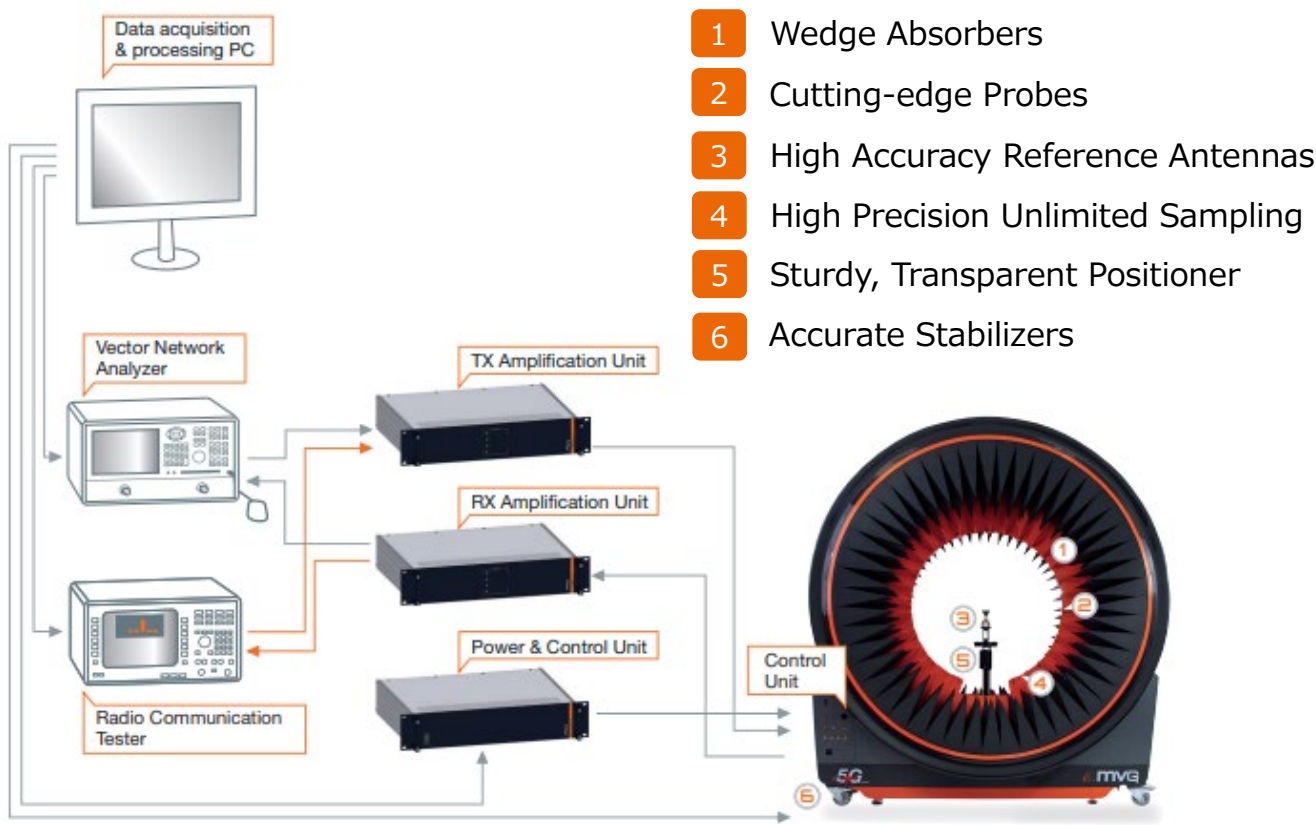
Antenna 2 (2/2)

Frequency	XZ-cut	XY-cut	YZ-cut
2480 MHz			

Appendix. 1. Measurement Procedure

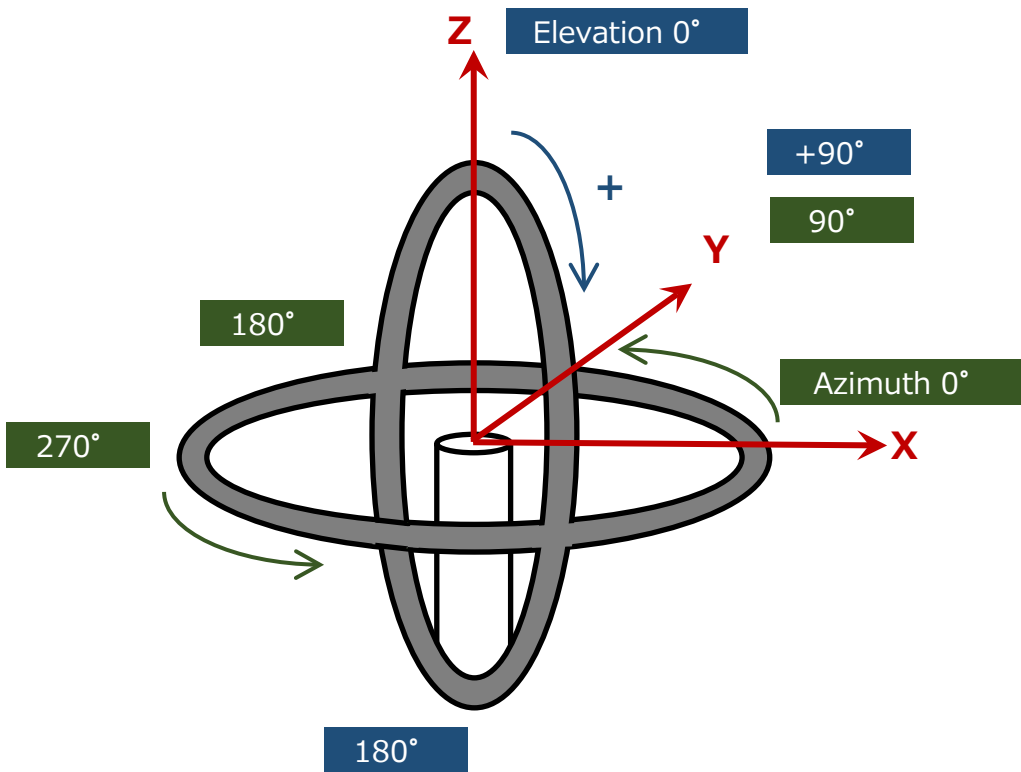
The antenna gain is measured with StaLab multi-probe measurement system.

System Overview



(References: MVG, StarLab 50GHz multi-probe measurement system datasheet)

Measurement Axis



Theta: 0 to 180 degree
Phi+: 0 to 360 degree

Appendix. 2.

